



RESPONSE TO OFFICE ACTION

This is in response to the Office Communication mailed 06/30/2005 with respect to the Application No. 10/751,325 titled "Method for production of 3D laser-induced images with internal structure"

Please, amend the application as follows:

IN THE CLAIMS:

Please, cancel Claims 1 – 17.

Please, allow Claims 18 – 27 listed below on the separate sheets (pages 4-6).

Please, add Figures 1-3 and the description of the drawing. They illustrate laser-induced images with internal structures and facilitate understanding of the invention. They show the result of using methods disclosed in the present invention and specified in the claims 18-27

Remarks

The present invention is based on the unique property of laser-induced damage images produced inside transparent materials: it is possible to produce an image with its internal structure so that the structure is visible. This property was not used in any patents disclosing methods and system for production of laser-induced images. No patents or publications describe the corresponding method. All previous patents relate to regular 2D or 3D images and disclose formation of 2D or 3D surface images (without any internal structure) inside transparent materials.

The foundation for the production of an image with visible internal structure is the creation of the special arrangement of laser-induced damages reproducing the internal structure. The first step of this action is producing an arrangement which has damage density corresponding to the density of internal structure so that distances between adjacent damages are larger than minimal critical value. However, if this damage arrangement is produced, usually, internal structure is not visible (or badly visible). Therefore, it is necessary to make the following step which is modification of the first